NCBI

results of BLAST

BLASTP 2.2.6 [Apr-09-2003]

Reference:
Altschul, Stephen F., Thomas L. Madden, Alejandro A. Schäffer, Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Res. 25:3389-3402.

RID: 1051807279-015009-27174

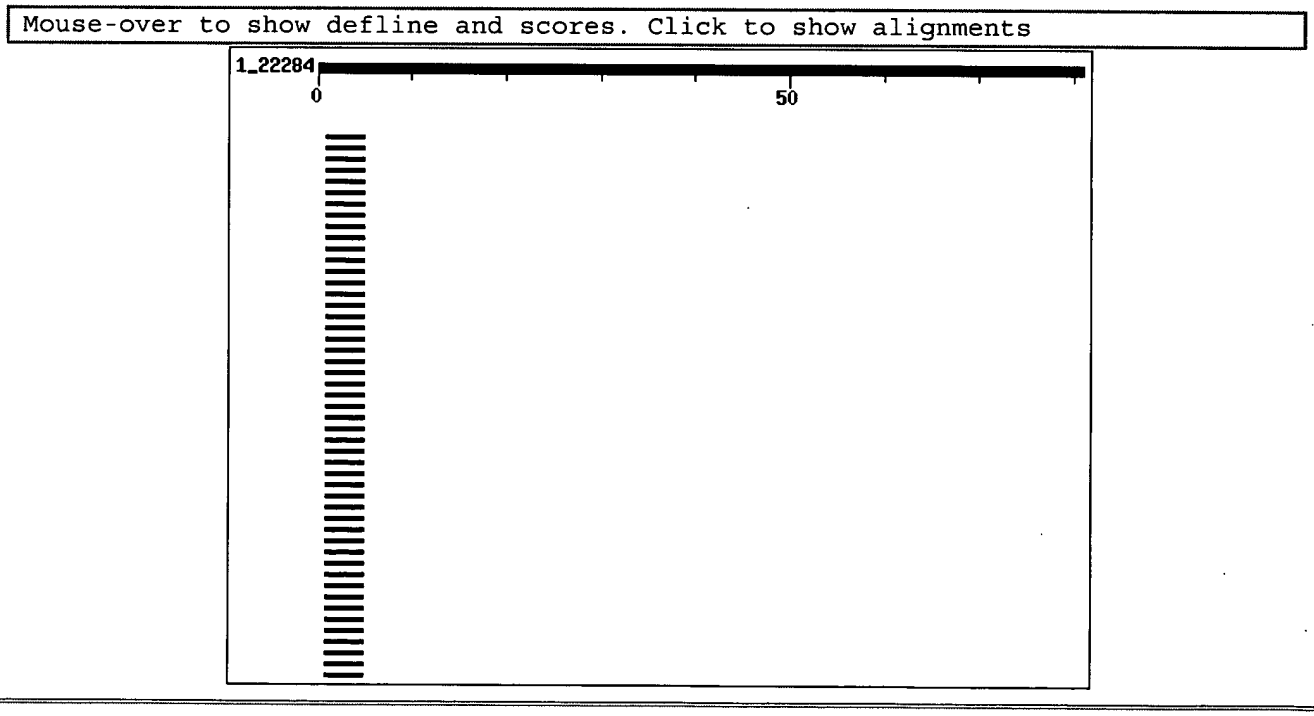
Query=
(81 letters)

Database: Protein sequences derived from the Patent division of GenBank
119,193 sequences; 19,553,006 total letters

If you have any problems or questions with the results of this search please refer to the **BLAST FAQs**

Taxonomy reports

Distribution of 102 Blast Hits on the Query Sequence



Sequences producing significant alignments:	Score (bits)	E Value
gi\|7224630\|gb\|AAE24797.1\| Sequence 5 from patent US 5910568...	21	113

gi\|7224641\|gb\|AAE24808.1\|	Sequence 16 from patent US 591056...	21	113
gi\|29699042\|gb\|AAO95634.1\|	Sequence 53 from patent US 6500431	21	113
gi\|3022870\|gb\|AAC12489.1\|I85350	Sequence 2 from patent US 5...	21	113
gi\|29699036\|gb\|AAO95628.1\|	Sequence 47 from patent US 65004...	21	113
gi\|29699048\|gb\|AAO95640.1\|	Sequence 59 from patent US 6500431	21	113
gi\|29699045\|gb\|AAO95637.1\|	Sequence 56 from patent US 6500431	21	113
gi\|29699014\|gb\|AAO95606.1\|	Sequence 25 from patent US 6500431	21	113
gi\|29699035\|gb\|AAO95627.1\|	Sequence 46 from patent US 6500431	21	113
gi\|29699015\|gb\|AAO95607.1\|	Sequence 26 from patent US 6500431	21	113
gi\|29699000\|gb\|AAO95592.1\|	Sequence 1 from patent US 6500431	21	113
gi\|10058258\|gb\|AAE35164.1\|	Sequence 3 from patent US 5981263	21	113
gi\|29699033\|gb\|AAO95625.1\|	Sequence 44 from patent US 65004...	21	113
gi\|29699016\|gb\|AAO95608.1\|	Sequence 27 from patent US 6500431	21	113
gi\|29699039\|gb\|AAO95631.1\|	Sequence 50 from patent US 6500431	21	113
gi\|7224639\|gb\|AAE24806.1\|	Sequence 14 from patent US 591056...	21	113
gi\|29699047\|gb\|AAO95639.1\|	Sequence 58 from patent US 6500431	21	113
gi\|29699038\|gb\|AAO95630.1\|	Sequence 49 from patent US 6500431	21	113
gi\|29699002\|gb\|AAO95594.1\|	Sequence 13 from patent US 6500431	21	113
gi\|29561474\|emb\|CAD88072.1\|	unnamed protein product [Homo s...	21	113
gi\|29699046\|gb\|AAO95638.1\|	Sequence 57 from patent US 6500431	21	113
gi\|7224640\|gb\|AAE24807.1\|	Sequence 15 from patent US 591056...	21	113
gi\|7224629\|gb\|AAE24796.1\|	Sequence 4 from patent US 5910568...	21	113
gi\|29699037\|gb\|AAO95629.1\|	Sequence 48 from patent US 6500431	21	113
gi\|29699013\|gb\|AAO95605.1\|	Sequence 24 from patent US 6500431	21	113
gi\|3206281\|gb\|AAC19716.1\|I86563	Sequence 3 from patent US 5...	21	113
gi\|29699022\|gb\|AAO95614.1\|	Sequence 33 from patent US 6500431	21	113
gi\|29699001\|gb\|AAO95593.1\|	Sequence 2 from patent US 6500431	21	113
gi\|29699008\|gb\|AAO95600.1\|	Sequence 19 from patent US 6500431	21	113
gi\|12820406\|gb\|AAE47956.1\|	Sequence 15 from patent US 6103483	21	113
gi\|29699041\|gb\|AAO95633.1\|	Sequence 52 from patent US 6500431	21	113
gi\|29699044\|gb\|AAO95636.1\|	Sequence 55 from patent US 6500431	21	113
gi\|1828434\|gb\|AAB42888.1\|	Sequence 2 from patent US 5571787	21	113
gi\|29699010\|gb\|AAO95602.1\|	Sequence 21 from patent US 6500431	21	113
gi\|29699040\|gb\|AAO95632.1\|	Sequence 51 from patent US 6500431	21	113
gi\|6739169\|emb\|CAB69390.1\|	unnamed protein product [unident...	18	490
gi\|10050357\|gb\|AAE27264.1\|	Sequence 2 from patent US 5955279	18	658
gi\|1567710\|emb\|CAA02124.1\|	thrombin inhibitor protein [Rhod...	18	658
gi\|27276406\|gb\|AAN92741.1\|	Sequence 2 from patent US 6458536	18	658
gi\|5946879\|gb\|AAE03784.1\|	Sequence 45 from patent US 586654...	18	658
gi\|27276407\|gb\|AAN92742.1\|	Sequence 3 from patent US 6458536	18	658
gi\|3997977\|gb\|AAC91409.1\|AR017519	Sequence 8 from patent US...	18	658
gi\|5946877\|gb\|AAE03782.1\|	Sequence 43 from patent US 586654...	18	658
gi\|5946880\|gb\|AAE03785.1\|	Sequence 46 from patent US 586654...	18	658
gi\|1567704\|emb\|CAA02121.1\|	thrombin inhibitor protein [Rhod...	18	658
gi\|5971499\|gb\|AAE11904.1\|	Sequence 4 from patent US 5821048	18	658
gi\|5946878\|gb\|AAE03783.1\|	Sequence 44 from patent US 586654...	18	658
gi\|313930\|gb\|AAA01499.1\|	Sequence 1 from Patent US 4777239	18	658
gi\|1567698\|emb\|CAA02118.1\|	thrombin inhibitor protein [Rhod...	18	658
gi\|3937697\|gb\|AAC81241.1\|I93227	Sequence 2 from patent US 5...	18	658
gi\|5954515\|gb\|AAE07019.1\|	Sequence 5 from patent US 5872234...	18	658
gi\|1567700\|emb\|CAA02119.1\|	thrombin inhibitor protein [Rhod...	18	658
gi\|583799\|emb\|CAA01214.1\|	pol [Visna virus]	18	658
gi\|1567696\|emb\|CAA02117.1\|	thrombin inhibitor protein [Rhod...	18	658
gi\|1567708\|emb\|CAA02123.1\|	thrombin inhibitor protein [Rhod...	18	658
gi\|1612522\|gb\|AAB15502.1\|	Sequence 2 from patent US 5552306...	18	658
gi\|1567702\|emb\|CAA02120.1\|	thrombin inhibitor protein [Rhod...	18	658
gi\|268659\|gb\|AAA00893.1\|	Sequence 2 from Patent US 4652628	18	658
gi\|17902298\|emb\|CAD19395.1\|	unnamed protein product [Homo s...	18	658
gi\|21439322\|emb\|CAD35048.1\|	unnamed protein product [Homo s...	18	882
gi\|23334541\|gb\|AAN27907.1\|	Sequence 2 from patent US 6441276	18	882
gi\|10048745\|gb\|AAE25652.1\|	Sequence 2 from patent US 5948640	18	882
gi\|5946871\|gb\|AAE03776.1\|	Sequence 27 from patent US 586654...	18	882
gi\|5946899\|gb\|AAE03804.1\|	Sequence 65 from patent US 586654...	18	882
gi\|5946886\|gb\|AAE03791.1\|	Sequence 52 from patent US 586654...	18	882
gi\|2300945\|emb\|CAA02959.1\|	unnamed protein product [Rhipice...	18	882

gi\|23310296\|gb\|AAN18945.1\| Sequence 21 from patent US 6403352	18	882	
gi\|29719546\|gb\|AAP01890.1\| Sequence 2 from patent US 652458...	17	1184	
gi\|6088489\|emb\|CAB58625.1\| PT-NANBH coding sequence [uniden...	17	1184	
gi\|5950802\|gb\|AAE05028.1\| Sequence 2 from patent US 5869282...	17	1184	
gi\|10053842\|gb\|AAE30749.1\| Sequence 2 from patent US 5965401	17	1184	
gi\|28447380\|emb\|CAD67632.1\| unnamed protein product [Homo s...	17	1184	
gi\|15121888\|gb\|AAE72568.1\| Sequence 4 from patent US 6236946	17	1184	
gi\|12813980\|gb\|AAE45280.1\| Sequence 7 from patent US 6083917	17	1184	
gi\|912334\|gb\|AAA71788.1\| Sequence 10 from patent US 5436318...	17	1184	
gi\|6004710\|gb\|AAE23137.1\| Sequence 12 from patent US 5821227	17	1184	
gi\|25269929\|emb\|CAD57507.1\| unnamed protein product [Mus mu...	17	1184	
gi\|16223330\|gb\|AAE74746.1\| Sequence 1 from patent US 6251613	17	1184	
gi\|270253\|gb\|AAA01907.1\| Sequence 1 from Patent US 4855231	17	1184	
gi\|2096613\|gb\|AAB55445.1\| Sequence 2 from patent US 5612204	17	1184	
gi\|21508650\|gb\|AAM58139.1\| Sequence 1 from patent US 6379886	17	1184	
gi\|12828947\|gb\|AAE50647.1\| Sequence 20 from patent US 6127116	17	1184	
gi\|14111017\|gb\|AAE57557.1\| Sequence 50 from patent US 6172189	17	1184	
gi\|21066309\|emb\|CAD32154.1\| unnamed protein product [synthe...	17	1184	
gi\|10062419\|gb\|AAE37689.1\| Sequence 6 from patent US 598990...	17	1184	
gi\|7224494\|gb\|AAE24661.1\| Sequence 23 from patent US 591040...	17	1184	
gi\|2725028\|gb\|AAB92710.1\|I67048 Sequence 36 from patent US ...	17	1184	
gi\|14101373\|gb\|AAE53690.1\| Sequence 18 from patent US 6150087	17	1184	
gi\|911718\|gb\|AAA71172.1\| Sequence 5 from patent US 5428145	17	1184	
gi\|3991311\|gb\|AAC84738.1\|AR001742 Sequence 1 from patent US...	17	1184	
gi\|10058257\|gb\|AAE35163.1\| Sequence 1 from patent US 5981263	17	1184	
gi\|5946895\|gb\|AAE03800.1\| Sequence 61 from patent US 586654...	17	1184	
gi\|15142515\|emb\|CAC50614.1\| unnamed protein product [Escher...	17	1184	
gi\|14103321\|gb\|AAE54755.1\| Sequence 3 from patent US 6153421	17	1184	
gi\|15108514\|gb\|AAE67550.1\| Sequence 23 from patent US 6211338	17	1184	
gi\|15108502\|gb\|AAE67538.1\| Sequence 11 from patent US 6211338	17	1184	
gi\|3993027\|gb\|AAC86454.1\|AR005971 Sequence 2 from patent US...	17	1184	
gi\|3999432\|gb\|AAC92864.1\|AR021926 Sequence 1 from patent US...	17	1184	
gi\|22207308\|emb\|CAD43568.1\| unnamed protein product [Hepati...	17	1184	
gi\|594930\|gb\|AAA56537.1\| Sequence 2 from Patent EP 0077196	17	1184	

Alignments

Get selected sequences | Select all | Deselect all

☐ >gi|7224630|gb|AAE24797.1| Sequence 5 from patent US 5910568
gi|10069483|gb|AAE41314.1| Sequence 5 from patent US 6004586
gi|12820396|gb|AAE47946.1| Sequence 5 from patent US 6103483
Length = 19

Score = 20.6 bits (41), Expect = 113
Identities = 5/5 (100%), Positives = 5/5 (100%)

```
Query: 2  DVCQD 6
          DVCQD
Sbjct: 8  DVCQD 12
```

☐ >gi|7224641|gb|AAE24808.1| Sequence 16 from patent US 5910568
gi|10069505|gb|AAE41325.1| Sequence 16 from patent US 6004586
gi|12820407|gb|AAE47957.1| Sequence 16 from patent US 6103483
Length = 79

Score = 20.6 bits (41), Expect = 113
Identities = 5/5 (100%), Positives = 5/5 (100%)

```
Query: 2  DVCQD 6
          DVCQD
Sbjct: 67 DVCQD 71
```

☐>gi|29699042|gb|AAO95634.1| Sequence 53 from patent US 6500431
Length = 70

Score = 20.6 bits (41), Expect = 113
Identities = 5/5 (100%), Positives = 5/5 (100%)

```
Query: 2  DVCQD 6
          DVCQD
Sbjct: 7  DVCQD 11
```

☐>gi|3022870|gb|AAC12489.1|I85350 Sequence 2 from patent US 5696080
gi|3407473|gb|AAC29629.1|I83943 Sequence 2 from patent US 5714459
Length = 523

Score = 20.6 bits (41), Expect = 113
Identities = 5/5 (100%), Positives = 5/5 (100%)

```
Query: 2   DVCQD 6
           DVCQD
Sbjct: 195 DVCQD 199
```

☐>gi|29699036|gb|AAO95628.1| Sequence 47 from patent US 6500431
gi|29699043|gb|AAO95635.1| Sequence 54 from patent US 6500431
Length = 16

Score = 20.6 bits (41), Expect = 113
Identities = 5/5 (100%), Positives = 5/5 (100%)

```
Query: 2  DVCQD 6
          DVCQD
Sbjct: 7  DVCQD 11
```

☐>gi|29699048|gb|AAO95640.1| Sequence 59 from patent US 6500431
Length = 16

Score = 20.6 bits (41), Expect = 113
Identities = 5/5 (100%), Positives = 5/5 (100%)

```
Query: 2  DVCQD 6
          DVCQD
Sbjct: 7  DVCQD 11
```

☐>gi|29699045|gb|AAO95637.1| Sequence 56 from patent US 6500431
Length = 16

Score = 20.6 bits (41), Expect = 113
Identities = 5/5 (100%), Positives = 5/5 (100%)

```
Query: 2  DVCQD 6
          DVCQD
Sbjct: 7  DVCQD 11
```

☐>gi|29699014|gb|AAO95606.1| Sequence 25 from patent US 6500431
Length = 8

Score = 20.6 bits (41), Expect = 113
Identities = 5/5 (100%), Positives = 5/5 (100%)

```
Query: 2 DVCQD 6
         DVCQD
Sbjct: 1 DVCQD 5
```

☐>gi|29699035|gb|AAO95627.1| Sequence 46 from patent US 6500431

Length = 70

Score = 20.6 bits (41), Expect = 113
Identities = 5/5 (100%), Positives = 5/5 (100%)

Query: 2 DVCQD 6
DVCQD
Sbjct: 7 DVCQD 11

☐>gi|29699015|gb|AAO95607.1| Sequence 26 from patent US 6500431
Length = 7

Score = 20.6 bits (41), Expect = 113
Identities = 5/5 (100%), Positives = 5/5 (100%)

Query: 2 DVCQD 6
DVCQD
Sbjct: 1 DVCQD 5

☐>gi|29699000|gb|AAO95592.1| Sequence 1 from patent US 6500431
Length = 524

Score = 20.6 bits (41), Expect = 113
Identities = 5/5 (100%), Positives = 5/5 (100%)

Query: 2 DVCQD 6
DVCQD
Sbjct: 196 DVCQD 200

☐>gi|10058258|gb|AAE35164.1| Sequence 3 from patent US 5981263
Length = 956

Score = 20.6 bits (41), Expect = 113
Identities = 5/5 (100%), Positives = 5/5 (100%)

Query: 2 DVCQD 6
DVCQD
Sbjct: 568 DVCQD 572

☐>gi|29699033|gb|AAO95625.1| Sequence 44 from patent US 6500431
gi|29699034|gb|AAO95626.1| Sequence 45 from patent US 6500431
Length = 70

Score = 20.6 bits (41), Expect = 113
Identities = 5/5 (100%), Positives = 5/5 (100%)

Query: 2 DVCQD 6
DVCQD
Sbjct: 7 DVCQD 11

☐>gi|29699016|gb|AAO95608.1| Sequence 27 from patent US 6500431
Length = 6

Score = 20.6 bits (41), Expect = 113
Identities = 5/5 (100%), Positives = 5/5 (100%)

Query: 2 DVCQD 6
DVCQD
Sbjct: 1 DVCQD 5

☐>gi|29699039|gb|AAO95631.1| Sequence 50 from patent US 6500431
Length = 70

Score = 20.6 bits (41), Expect = 113

```
 Identities = 5/5 (100%), Positives = 5/5 (100%)

Query: 2  DVCQD 6
          DVCQD
Sbjct: 7  DVCQD 11

☐>gi|7224639|gb|AAE24806.1|   Sequence 14 from patent US 5910568
 gi|10069501|gb|AAE41323.1|   Sequence 14 from patent US 6004586
 gi|12820405|gb|AAE47955.1|   Sequence 14 from patent US 6103483
          Length = 79

 Score = 20.6 bits (41), Expect =   113
 Identities = 5/5 (100%), Positives = 5/5 (100%)

Query: 2  DVCQD 6
          DVCQD
Sbjct: 67 DVCQD 71

☐>gi|29699047|gb|AAO95639.1|   Sequence 58 from patent US 6500431
          Length = 16

 Score = 20.6 bits (41), Expect =   113
 Identities = 5/5 (100%), Positives = 5/5 (100%)

Query: 2  DVCQD 6
          DVCQD
Sbjct: 7  DVCQD 11

☐>gi|29699038|gb|AAO95630.1|   Sequence 49 from patent US 6500431
          Length = 70

 Score = 20.6 bits (41), Expect =   113
 Identities = 5/5 (100%), Positives = 5/5 (100%)

Query: 2  DVCQD 6
          DVCQD
Sbjct: 7  DVCQD 11

☐>gi|29699002|gb|AAO95594.1|   Sequence 13 from patent US 6500431
          Length = 15

 Score = 20.6 bits (41), Expect =   113
 Identities = 5/5 (100%), Positives = 5/5 (100%)

Query: 2  DVCQD 6
          DVCQD
Sbjct: 7  DVCQD 11

☐>gi|29561474|emb|CAD88072.1|   unnamed protein product [Homo sapiens]
          Length = 479

 Score = 20.6 bits (41), Expect =   113
 Identities = 5/5 (100%), Positives = 5/5 (100%)

Query: 2   DVCQD 6
           DVCQD
Sbjct: 196 DVCQD 200

☐>gi|29699046|gb|AAO95638.1|   Sequence 57 from patent US 6500431
          Length = 16

 Score = 20.6 bits (41), Expect =   113
 Identities = 5/5 (100%), Positives = 5/5 (100%)
```

```
Query: 2  DVCQD 6
          DVCQD
Sbjct: 7  DVCQD 11

☐>gi|7224640|gb|AAE24807.1|   Sequence 15 from patent US 5910568
 gi|10069503|gb|AAE41324.1|   Sequence 15 from patent US 6004586
          Length = 80

 Score = 20.6 bits (41), Expect =   113
 Identities = 5/5 (100%), Positives = 5/5 (100%)

Query: 2  DVCQD 6
          DVCQD
Sbjct: 68 DVCQD 72

☐>gi|7224629|gb|AAE24796.1|   Sequence 4 from patent US 5910568
 gi|10069481|gb|AAE41313.1|   Sequence 4 from patent US 6004586
 gi|12820395|gb|AAE47945.1|   Sequence 4 from patent US 6103483
          Length = 15

 Score = 20.6 bits (41), Expect =   113
 Identities = 5/5 (100%), Positives = 5/5 (100%)

Query: 2  DVCQD 6
          DVCQD
Sbjct: 9  DVCQD 13

☐>gi|29699037|gb|AAO95629.1|   Sequence 48 from patent US 6500431
          Length = 16

 Score = 20.6 bits (41), Expect =   113
 Identities = 5/5 (100%), Positives = 5/5 (100%)

Query: 2  DVCQD 6
          DVCQD
Sbjct: 7  DVCQD 11

☐>gi|29699013|gb|AAO95605.1|   Sequence 24 from patent US 6500431
          Length = 9

 Score = 20.6 bits (41), Expect =   113
 Identities = 5/5 (100%), Positives = 5/5 (100%)

Query: 2 DVCQD 6
         DVCQD
Sbjct: 1 DVCQD 5

☐>gi|3206281|gb|AAC19716.1|I86563   Sequence 3 from patent US 5700909
          Length = 523

 Score = 20.6 bits (41), Expect =   113
 Identities = 5/5 (100%), Positives = 5/5 (100%)

Query: 2   DVCQD 6
           DVCQD
Sbjct: 195 DVCQD 199

☐>gi|29699022|gb|AAO95614.1|   Sequence 33 from patent US 6500431
          Length = 11

 Score = 20.6 bits (41), Expect =   113
 Identities = 5/5 (100%), Positives = 5/5 (100%)

Query: 2 DVCQD 6
```

```
          DVCQD
Sbjct: 2 DVCQD 6
```

☐>gi|29699001|gb|AAO95593.1| Sequence 2 from patent US 6500431
Length = 81

```
 Score = 20.6 bits (41), Expect =   113
 Identities = 5/5 (100%), Positives = 5/5 (100%)

Query: 2 DVCQD 6
          DVCQD
Sbjct: 2 DVCQD 6
```

☐>gi|29699008|gb|AAO95600.1| Sequence 19 from patent US 6500431
Length = 11

```
 Score = 20.6 bits (41), Expect =   113
 Identities = 5/5 (100%), Positives = 5/5 (100%)

Query: 2 DVCQD 6
          DVCQD
Sbjct: 2 DVCQD 6
```

☐>gi|12820406|gb|AAE47956.1| Sequence 15 from patent US 6103483
Length = 80

```
 Score = 20.6 bits (41), Expect =   113
 Identities = 5/5 (100%), Positives = 5/5 (100%)

Query: 2  DVCQD 6
          DVCQD
Sbjct: 68 DVCQD 72
```

☐>gi|29699041|gb|AAO95633.1| Sequence 52 from patent US 6500431
Length = 70

```
 Score = 20.6 bits (41), Expect =   113
 Identities = 5/5 (100%), Positives = 5/5 (100%)

Query: 2  DVCQD 6
          DVCQD
Sbjct: 7  DVCQD 11
```

☐>gi|29699044|gb|AAO95636.1| Sequence 55 from patent US 6500431
Length = 16

```
 Score = 20.6 bits (41), Expect =   113
 Identities = 5/5 (100%), Positives = 5/5 (100%)

Query: 2  DVCQD 6
          DVCQD
Sbjct: 7  DVCQD 11
```

☐>gi|1828434|gb|AAB42888.1| Sequence 2 from patent US 5571787
Length = 523

```
 Score = 20.6 bits (41), Expect =   113
 Identities = 5/5 (100%), Positives = 5/5 (100%)

Query: 2   DVCQD 6
           DVCQD
Sbjct: 195 DVCQD 199
```

☐>gi|29699010|gb|AAO95602.1| Sequence 21 from patent US 6500431
Length = 10

Score = 20.6 bits (41), Expect = 113
Identities = 5/5 (100%), Positives = 5/5 (100%)

```
Query: 2 DVCQD 6
         DVCQD
Sbjct: 1 DVCQD 5
```

☐>gi|29699040|gb|AAO95632.1| Sequence 51 from patent US 6500431
Length = 70

Score = 20.6 bits (41), Expect = 113
Identities = 5/5 (100%), Positives = 5/5 (100%)

```
Query: 2  DVCQD 6
          DVCQD
Sbjct: 7  DVCQD 11
```

☐>gi|6739169|emb|CAB69390.1| unnamed protein product [unidentified]
Length = 378

Score = 18.5 bits (36), Expect = 490
Identities = 4/5 (80%), Positives = 5/5 (100%)

```
Query: 2  DVCQD 6
          D+CQD
Sbjct: 36 DICQD 40
```

☐>gi|10050357|gb|AAE27264.1| Sequence 2 from patent US 5955279
Length = 3056

Score = 18.0 bits (35), Expect = 658
Identities = 4/5 (80%), Positives = 5/5 (100%)

```
Query: 2    DVCQD 6
             DVCQ+
Sbjct: 2822 DVCQN 2826
```

☐>gi|1567710|emb|CAA02124.1| thrombin inhibitor protein [Rhodnius prolixus]
gi|1610452|gb|AAB13424.1| Sequence 17 from patent US 5523287
Length = 368

Score = 18.0 bits (35), Expect = 658
Identities = 4/5 (80%), Positives = 5/5 (100%)

```
Query: 2   DVCQD 6
            DVCQ+
Sbjct: 253 DVCQE 257
```

Score = 18.0 bits (35), Expect = 658
Identities = 4/5 (80%), Positives = 5/5 (100%)

```
Query: 2  DVCQD 6
           DVCQ+
Sbjct: 69 DVCQE 73
```

☐>gi|27276406|gb|AAN92741.1| Sequence 2 from patent US 6458536
Length = 3056

Score = 18.0 bits (35), Expect = 658
Identities = 4/5 (80%), Positives = 5/5 (100%)

```
Query: 2    DVCQD 6
            DVCQ+
Sbjct: 2822 DVCQN 2826

☐>gi|5946879|gb|AAE03784.1|   Sequence 45 from patent US 5866542
 gi|5947180|gb|AAE04085.1|   Sequence 45 from patent US 5866543
 gi|5954029|gb|AAE06533.1|   Sequence 45 from patent US 5872098
 gi|10050423|gb|AAE27330.1|   Sequence 45 from patent US 5955294
 gi|12816360|gb|AAE46169.1|   Sequence 45 from patent US 6087487
           Length = 86

 Score = 18.0 bits (35), Expect =   658
 Identities = 4/5 (80%), Positives = 5/5 (100%)

Query: 2  DVCQD 6
           DVCQ+
Sbjct: 72 DVCQE 76

☐>gi|27276407|gb|AAN92742.1|   Sequence 3 from patent US 6458536
           Length = 3057

 Score = 18.0 bits (35), Expect =   658
 Identities = 4/5 (80%), Positives = 5/5 (100%)

Query: 2    DVCQD 6
             DVCQ+
Sbjct: 2823 DVCQN 2827

☐>gi|3997977|gb|AAC91409.1|AR017519   Sequence 8 from patent US 5777093
 gi|5941717|gb|AAE01249.1|   Sequence 3 from patent US 5858661
 gi|14481478|gb|AAE62715.1|   Sequence 3 from patent US 6200749
 gi|15108474|gb|AAE67510.1|   Sequence 3 from patent US 6211336
           Length = 3056

 Score = 18.0 bits (35), Expect =   658
 Identities = 4/5 (80%), Positives = 5/5 (100%)

Query: 2    DVCQD 6
             DVCQ+
Sbjct: 2822 DVCQN 2826

☐>gi|5946877|gb|AAE03782.1|   Sequence 43 from patent US 5866542
 gi|5947178|gb|AAE04083.1|   Sequence 43 from patent US 5866543
 gi|5954027|gb|AAE06531.1|   Sequence 43 from patent US 5872098
 gi|10050421|gb|AAE27328.1|   Sequence 43 from patent US 5955294
 gi|12816358|gb|AAE46167.1|   Sequence 43 from patent US 6087487
           Length = 88

 Score = 18.0 bits (35), Expect =   658
 Identities = 4/5 (80%), Positives = 5/5 (100%)

Query: 2  DVCQD 6
           DVCQ+
Sbjct: 74 DVCQE 78

☐>gi|5946880|gb|AAE03785.1|   Sequence 46 from patent US 5866542
 gi|5947181|gb|AAE04086.1|   Sequence 46 from patent US 5866543
 gi|5954030|gb|AAE06534.1|   Sequence 46 from patent US 5872098
 gi|10050424|gb|AAE27331.1|   Sequence 46 from patent US 5955294
 gi|12816361|gb|AAE46170.1|   Sequence 46 from patent US 6087487
           Length = 86

 Score = 18.0 bits (35), Expect =   658
```

```
 Identities = 4/5 (80%), Positives = 5/5 (100%)

Query: 2  DVCQD 6
          DVCQ+
Sbjct: 72 DVCQE 76
```

☐>gi|1567704|emb|CAA02121.1| thrombin inhibitor protein [Rhodnius prolixus]
gi|1610449|gb|AAB13421.1| Sequence 11 from patent US 5523287

```
          Length = 129

 Score = 18.0 bits (35), Expect =  658
 Identities = 4/5 (80%), Positives = 5/5 (100%)

Query: 2  DVCQD 6
          DVCQ+
Sbjct: 14 DVCQE 18
```

☐>gi|5971499|gb|AAE11904.1| Sequence 4 from patent US 5821048

```
          Length = 365

 Score = 18.0 bits (35), Expect =  658
 Identities = 4/5 (80%), Positives = 5/5 (100%)

Query: 2  DVCQD 6
          +VCQD
Sbjct: 9  NVCQD 13
```

☐>gi|5946878|gb|AAE03783.1| Sequence 44 from patent US 5866542
gi|5947179|gb|AAE04084.1| Sequence 44 from patent US 5866543
gi|5954028|gb|AAE06532.1| Sequence 44 from patent US 5872098
gi|10050422|gb|AAE27329.1| Sequence 44 from patent US 5955294
gi|12816359|gb|AAE46168.1| Sequence 44 from patent US 6087487

```
          Length = 87

 Score = 18.0 bits (35), Expect =  658
 Identities = 4/5 (80%), Positives = 5/5 (100%)

Query: 2  DVCQD 6
          DVCQ+
Sbjct: 73 DVCQE 77
```

☐>gi|313930|gb|AAA01499.1| Sequence 1 from Patent US 4777239

```
          Length = 365

 Score = 18.0 bits (35), Expect =  658
 Identities = 4/5 (80%), Positives = 5/5 (100%)

Query: 2  DVCQD 6
          +VCQD
Sbjct: 9  NVCQD 13
```

☐>gi|1567698|emb|CAA02118.1| thrombin inhibitor protein [Rhodnius prolixus]
gi|1610446|gb|AAB13418.1| Sequence 5 from patent US 5523287

```
          Length = 90

 Score = 18.0 bits (35), Expect =  658
 Identities = 4/5 (80%), Positives = 5/5 (100%)

Query: 2  DVCQD 6
          DVCQ+
Sbjct: 34 DVCQE 38
```

☐>gi|3937697|gb|AAC81241.1|I93227 Sequence 2 from patent US 5728807
gi|3997972|gb|AAC91404.1|AR017514 Sequence 2 from patent US 5777093

```
          Length = 1708

 Score = 18.0 bits (35), Expect =   658
 Identities = 4/5 (80%), Positives = 5/5 (100%)

Query: 2    DVCQD 6
             DVCQ+
Sbjct: 1474 DVCQN 1478
```

Get selected sequences | Select all | Deselect all

```
  Database: Protein sequences derived from the Patent division of
  GenBank
    Posted date:  May 1, 2003  5:22 AM
  Number of letters in database: 19,553,006
  Number of sequences in database:  119,193

Lambda     K      H
   0.342    0.294     1.89

Gapped
Lambda     K      H
   0.294    0.110    0.610


Matrix: PAM30
Gap Penalties: Existence: 9, Extension: 1
Number of Hits to DB: 204,330
Number of Sequences: 119193
Number of extensions: 496
Number of successful extensions: 429
Number of sequences better than 20000.0: 100
Number of HSP's better than 20000.0 without gapping: 427
Number of HSP's successfully gapped in prelim test: 0
Number of HSP's that attempted gapping in prelim test: 0
Number of HSP's gapped (non-prelim): 429
length of query: 5
length of database: 19,553,006
effective HSP length: 0
effective length of query: 9
effective length of database: 19,553,006
effective search space: 175977054
effective search space used: 175977054
T: 11
A: 40
X1: 15 ( 7.4 bits)
X2: 35 (14.8 bits)
X3: 58 (24.6 bits)
S1: 24 (13.6 bits)
S2: 24 (13.4 bits)
```